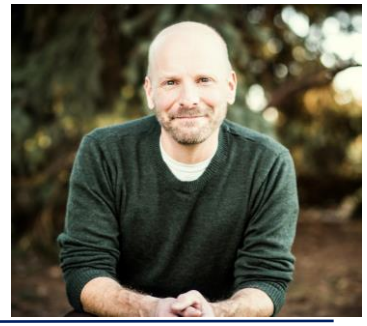
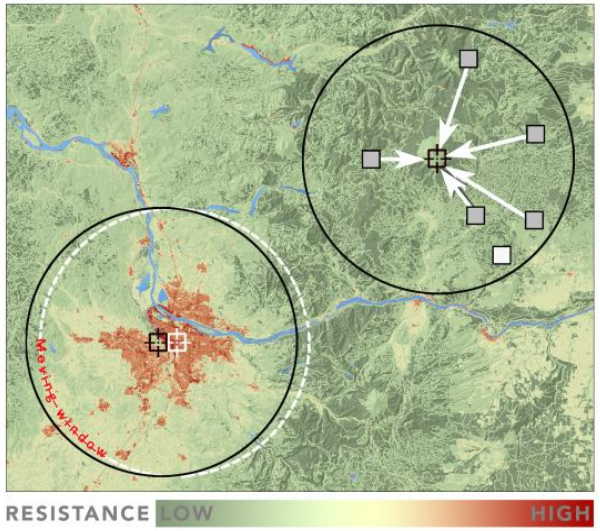
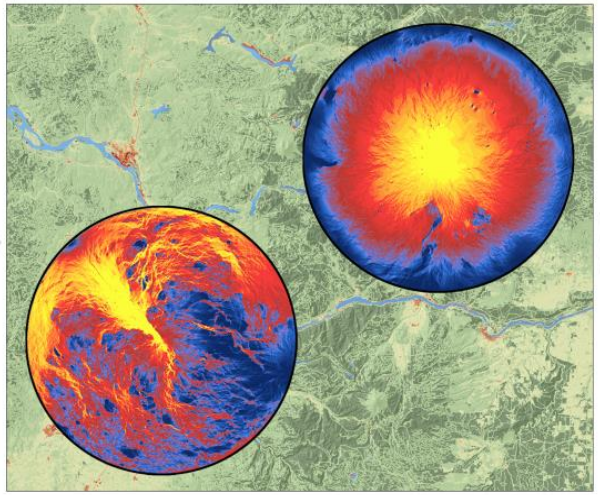
Hall – Circuitscape & Omniscape in Julia

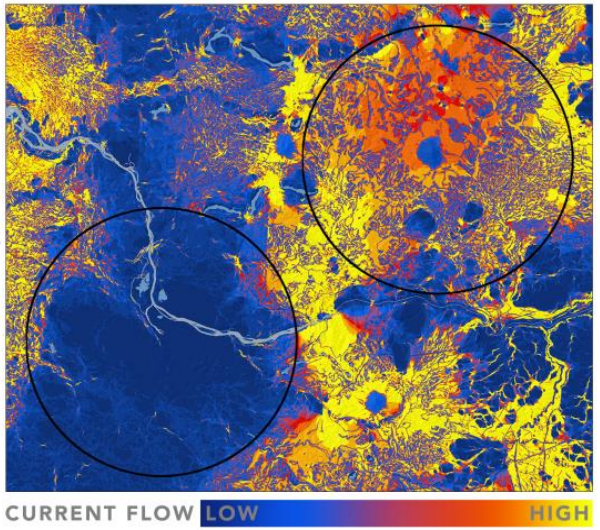
Kimberly Hall, The Nature Conservancy;
Viral Shah, Julia Computing; Ranjan Anantharaman, MIT;
Vincent Landau, Conservation Science Partners

Brad McRae
1966-2017









The Nature Conservancy

Julia computing

Conservation Science Partners

- We re-coded McRae & Shah's widely-used Circuitscape software in the high-performance Julia language, and created an open source, fast version of McRae's Omniscape, a very flexible tool for landscape & climate connectivity modeling using Earth observation datasets. See https://github.com/Circuitscape
- Our NASA-funded work on software is complete, and we are continuing to build support materials and new functionality.
- Our in-progress and proposed applications focus on identifying key places to ***restore*** to increase connectivity, and development of tools and workflows to facilitate dynamic connectivity models, e.g., using a time series of EO data. We welcome opportunities to collaborate!